



78

SEQUENCE LISTING

<110> Creech, Christopher D.
Jegla, Timothy J.
ICAgen, Inc.

<120> CNG3B: A Novel Cyclic Nucleotide-Gated Cation Channel

<130> 018512-006010US

<140> US 09/855,828

<141> 2001-05-14

<150> US 60/204,445

<151> 2000-05-15

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<170> PatentIn Ver. 2.1

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<212> PRT

<213> Homo sapiens

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<223> human cyclic nucleotide-gated cation channel (CNG)
3B (CNG3B)

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Glu Glu Lys Ser Leu Lys Thr Lys Ser Thr Pro Val Thr Ser Glu Glu
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Pro His Thr Asn Ile Gln Asp Lys Leu Ser Lys Lys Asn Ser Ser Gly
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Thr Val Pro Glu Gln Lys Glu Met Asp Pro Gly Lys Glu Gly Pro Asn
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Ser Pro Gln Asn Lys Pro Pro Ala Ala Pro Val Ile Asn Glu Tyr Ala
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Ser Pro Gln Thr Ala Lys Pro Thr Ala Val Pro Pro Val Lys Glu Ser
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 Asp Asp Lys Pro Thr Glu His Tyr Tyr Arg Leu Leu Trp Phe Lys Val
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 Lys Lys Met Pro Leu Thr Glu Tyr Leu Lys Arg Ile Lys Leu Pro Asn
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 Val Thr Leu Ala Tyr Asn Trp Asn Cys Trp Phe Ile Pro Leu Arg Leu
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 Asp Ile Ile Cys Asp Ile Ile Tyr Leu Tyr Asp Met Leu Phe Ile Gln
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Arg	Pro	Glu	Cys	Thr	Ala	Ser	Pro	Ile	Ala	Val	Glu	Glu	Glu	Pro	His	755	760	765
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<213> Artificial Sequence

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sense strand primer

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 Pro His Thr Asn Ile Gln Asp Lys Leu Ser Lys Lys Asn Ser Ser Gly
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 660 665 670
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Gln	Glu	Ser	Asn	Ala	Gln	Ala	Asn	Val	Gly	Ser	Gln	Glu	Pro	Ala	Asp	115	120	125	
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Val	Asp	Pro	Ser	Ser	Asn	Leu	Tyr	Tyr	Arg	Trp	Leu	Thr	Ala	Ile	Ala	165	170	175	
Leu	Pro	Val	Phe	Tyr	Asn	Trp	Tyr	Leu	Leu	Ile	Cys	Arg	Ala	Cys	Phe	180	185	190	
Asp	Glu	Leu	Gln	Ser	Glu	Tyr	Leu	Met	Leu	Trp	Leu	Val	Leu	Asp	Tyr	195	200	205	
Ser	Ala	Asp	Val	Leu	Tyr	Val	Leu	Asp	Val	Leu	Val	Arg	Ala	Arg	Thr	210	215	220	
Gly	Phe	Leu	Glu	Gln	Gly	Leu	Met	Val	Ser	Asp	Thr	Asn	Arg	Leu	Trp	225	230	235	240
Gln	His	Tyr	Lys	Thr	Thr	Thr	Gln	Phe	Lys	Leu	Asp	Val	Leu	Ser	Leu	245	250	255	
Val	Pro	Thr	Asp	Leu	Ala	Tyr	Leu	Lys	Val	Gly	Thr	Asn	Tyr	Pro	Glu	260	265	270	
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Asn	Leu	Val	Leu	Tyr	Ile	Leu	Ile	Ile	Ile	His	Trp	Asn	Ala	Cys	Ile	305	310	315	320
Tyr	Phe	Ala	Ile	Ser	Lys	Phe	Ile	Gly	Phe	Gly	Thr	Asp	Ser	Trp	Val	325	330	335	
Tyr	Pro	Asn	Ile	Ser	Ile	Pro	Glu	His	Gly	Arg	Leu	Ser	Arg	Lys	Tyr	340	345	350	
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Phe	Cys	Leu	Ser	Lys	Asp	Asp	Leu	Met	Glu	Ala	Leu	Thr	Glu	Tyr	Pro
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Ala Ser Thr Ser Glu Glu Ser Glu Asn Glu Asn Pro His Ala Arg Gly
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Ser Phe Ser Tyr Lys Ser Leu Arg Lys Gly Gly Pro Ser Gln Arg Glu
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Gln Tyr Leu Pro Gly Ala Ile Ala Leu Phe Asn Val Asn Asn Ser Ser
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Asn Lys Asp Gln Glu Pro Glu Glu Lys Lys Lys Lys Lys Lys Glu Lys
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Lys Ser Lys Ser Asp Asp Lys Asn Glu Asn Lys Asn Asp Pro Glu Lys
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Lys Asp Lys Lys Glu Glu Glu Lys Lys Glu Val Val Val Ile Asp Pro
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Ser Gly Asn Thr Tyr Tyr Asn Trp Leu Phe Cys Ile Thr Leu Pro Val
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Met Tyr Asn Trp Thr Met Val Ile Ala Arg Ala Cys Phe Asp Glu Leu
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Gln Ser Asp Tyr Leu Glu Tyr Trp Leu Ile Leu Asp Tyr Val Ser Asp
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